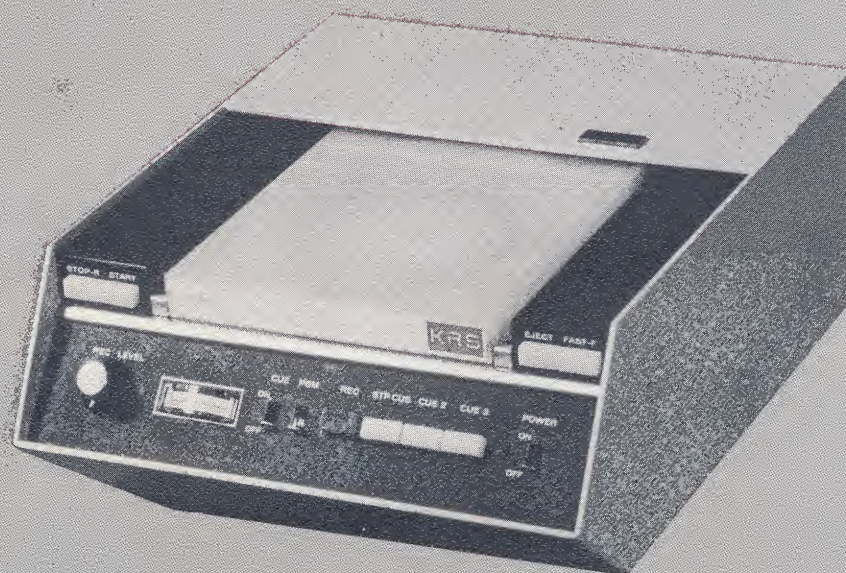




SINGLE TAPE CARTRIDGE RECORDER/REPRODUCER

Winner of An Award For Excellence In Design

NEW CONCEPT IN TAPE CARTRIDGE PRODUCTION MAKEUP

A compact single-deck tape cartridge transport built to meet or exceed highest broadcast tape recording standards, and to be compatible with the KRS 6-Stack Broadcaster. It accepts the KRS STACTAPE RCL-1000 series reversing continuous loop magnetic tape cartridge.

TWO VERSIONS AVAILABLE OF STUDIO QUALITY

SB-1P is a playback-only unit, while model SB1R/PF also includes recording facilities and reversing and fast forward mechanisms.

TAPE CARTRIDGE

Stactape magnetic tape cartridges are endless loop cartridges designed to combine all the handling simplicity of a continuous loop cartridge with the operating performance of a reel-to-reel recorder.

REVERSIBLE AND HIGH SPEED FORWARD

All the automatic rewind advantages of a continuous loop plus two features only available in this cartridge system—reversing and high speed forward.

TAPE TRANSPORT/HEADS

Special tape guide and transport design of high durability. Metal faced hyperbolic heads requiring negligible head cleaning.

* Trademark of KRS Electronics.

FEATURES

- New fast forward and fast reverse facility
- Utilizes reversible continuous-loop tape cartridge
- Companion production unit to 6-STACT BROADCASTER
- Meets or exceeds new NAB tape recording standard
- All solid-state electronics with extremely low maintenance
- New delay loop cartridges are available
- No tape slippage or flutter on fully loaded cartridge

KRS 1-STACT*

THE KRS 1-STACT UNIT

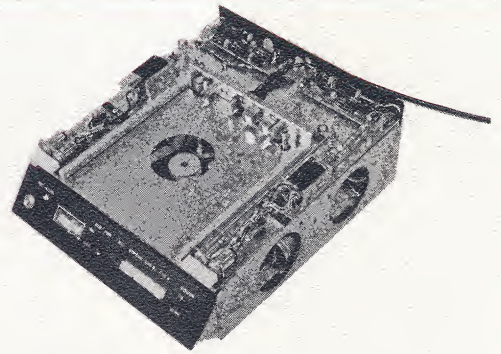
This single cartridge unit is available for production makeup of cartridges and general use. It provides the equivalent features of a reel-to-reel machine; i.e., reversing, fast forward, insertion of multiple cue tones, and selective track erasure.

These features are invaluable in using tape cartridges directly without the necessity of production makeup and editing on reel-to-reel devices and then transfer of material to the tape cartridge equipment.

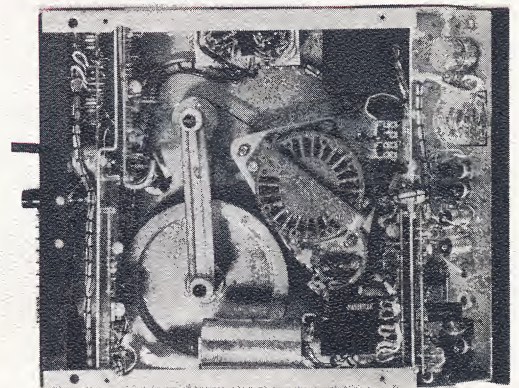
This one stact unit can also serve as a playback unit when desired.

A look at the unit with the cover off (Top Photo) shows the arrangement of the erase, record, and playback heads as well as the clutch assembly that pulls and locks the cartridge to the capstan. Electronics are completely solid-state. The play and cue amplifiers are identical and interchangeable. Pull-in, eject, and reversing operation is by solenoid.

Note here also that the tape guides are in the machine and not in the cartridge. This basic design feature eliminates the requirement for pressure pads on the heads and the usual ensuing excessive head cleaning necessary due to oxide buildup in other types of tape cartridge equipment. The elimination of frequent head cleaning is absolutely essential in any automated system if reproduced quality is going to be maintained without continual tear-down and loss of operational time.



KRS 1-Stact With Cover Removed.



KRS 1-Stact, Bottom View.



SPECIFICATIONS

Tape Speed	7½ ips standard, other speeds special order
Frequency Response	30-15,000 cps +2 db at 7½ ips
Signal-to-Noise	Greater than 50 db from 3% THD point
Flutter and Wow	Less than .18% RMS
Input	—15 to +15 dbm into 20,000 ohm balanced bridging Record Level Control
Output	0 dbm 600 ohm unbalanced
Flutter and Wow (with Full Load)	Less than 0.18 % RMS for all components between 0.5 and 250 c/s.
Start Time	Less than 0.1 second to playing speed after start initiated
Reproduce Timing Accuracy	± 0.5% (9 seconds in 30 minutes) in interchanged cartridges
Playback Equalization	NAB 7½ ips equalization standard
Weight	30 lbs.
Models	Rack Mount; Delay Broadcaster; Play only; Record and Playback

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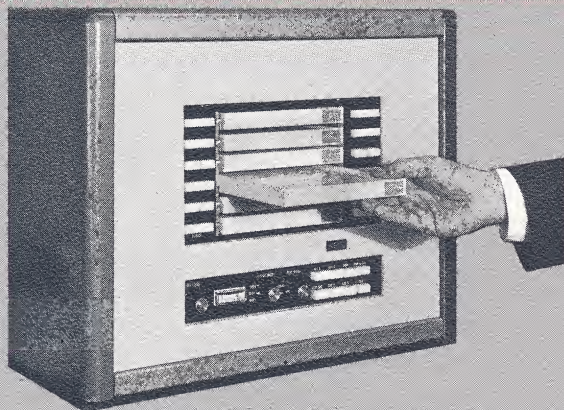
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Look To VISUAL For New Concepts In Broadcast Equipment

KRS STACT* BROADCASTER



Standard Unit in Cabinet Mount



Opened Tape Cartridge

REVERSIBLE CONTINUOUS-LOOP, 6-DECK TAPE CARTRIDGE RECORDER-REPRODUCER SYSTEM

NEW CONCEPT IN TAPE SYSTEM PACKAGING

The SB-6 uses one heavy-duty Pabst hysteresis-synchronous motor and two extended capstans in a rugged, integrated cartridge transport unit to provide independent forward and reverse tape motion in each of 6 STACTape Cartridges.

RUNNING TIMES

Selections from 10 seconds to 30 minutes long are loaded, played, automatically stopped and cued for replay.

OPERATING SIMPLICITY

Cartridges are easily loaded or changed in less than 3 seconds by sliding them into cartridge load slots. Two cue tones are available in addition to the Stop Cue tone. These can be applied to automated broadcast station operation.

RELIABILITY

The mechanical system contains only two rotating parts driven by a cool-running, inside-out capstan motor. No lubrication or routine maintenance adjustments are required.

AUDIO AUTOMATION APPLICATIONS

The KRS system can be treated like six recorders in one, and used as an integrated automated programming source or operated from a remote position. The cartridge decks can also be played as independent recording or playback sources.

*Trademark of KRS Electronics

FEATURES

- Meets or exceeds new NAB tape recording standards
- Utilizes new reversing continuous-loop magnetic tape cartridge
- New! All are available for stereo using 3 track operation
- New fast forward and reverse features
- All solid-state electronics
- Negligible head cleaning due to special tape guide system
- Complete independent control of each cartridge

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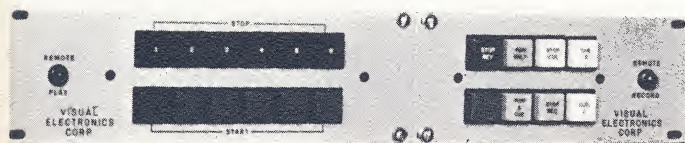
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KRS STACT BROADCASTER

SYSTEM AND APPLICATIONS

Precision loading adjustments are performed by the unit itself. The cartridge start solenoid pulls the cartridge into start position at the press of a pushbutton control. Tape guides and a selection of erase, record and play heads are mounted on a precision mounting bracket, and provide highly accurate tracking of recorded material. Momentary or extended reverse tape motion is commanded by pressing the Reverse pushbutton on each deck so equipped. Forward or reverse tape motion on any of the six decks may be effected independently of the other five.



Remote Control Panel for STACT Broadcaster

Applications include split use of one deck for production operations, the other five for random or sequential program and spot playback; all six decks under automation control for continuous multiple source programming; six decks independently selectable for themes, loop sound effects, spots, time signals, promos; automatic sequential playback of programming for background music channel; automatic message announcements on incoming phone lines; multi-source audio track playback unit for compositing sound tracks on videotape or film; control of audio and video equipment start/stop functions and audio/video switching; live phone patch delay recording/playback of interviews and news breaks; automatic protection recording during critical transmission periods; segmented pre-recording of complicated station breaks; long time period logging recording. Write Visual Electronics for detailed Application Engineering Bulletins.



SPECIFICATIONS

TAPE SPEED:

Normally $7\frac{1}{2}$ ips; other speeds available on specification from $\frac{1}{16}$ inch to 30 inches/sec. Cartridges reversible up to a maximum of five minutes.

MODELS AVAILABLE:

Each system contains six cartridge decks with 2 channels per deck. Model SB6R1 offers 5-deck playback only. 1-deck combination record/playback and 1 deck (record) reversible. Model SB6P incorporates 6 decks of playback only. All six stact units are internally wired for remote control and auxiliary cue tone sensing.

FREQUENCY RESPONSE:

30–15000 cps ± 2 db at $7\frac{1}{2}$ ips.

SIGNAL-TO-NOISE:

At least 50 db from 3% THD point.

FLUTTER AND WOW:

Less than 0.18% RMS on fully loaded cartridge; below 0.05% on short length stuffing cartridge.

INPUT:

– 15 + 15 dbm into 20,000 ohm balanced bridging record level control. May be terminated internally by switching in 600 ohm resistor. (Note: Will not take Low Z mic – use external matching transformer.)

TAPE TRACKS:

Inter-track isolation of 32-34 db for three track and 50 db isolation for two track. Facility for independent erasure of either of the dual recorded tracks.

OUTPUTS:

Grouped line output – all six decks mixed in line driver amplifier with output at 0 dbm, 600 ohms balanced (STD);

separate line output – six separate outputs at 0 dbm, 600 ohms unbalanced, by removing jumpers. (Note: Separate balanced outputs are available.)

ELECTRONICS:

Miniature, all solid-state, on separate plug-in epoxy glass etched circuit boards; units are readily replaceable, but seldom require either maintenance or replacement.

CONTROLS AND METERS:

Record level indicator; record mode selector, play mode selector; start and eject buttons for each deck; reverse buttons functional for each deck so equipped; program only, program and cue, record stop, stop cue, cue 2, cue 3, record function buttons with deck 6; all stop; power. Stop cue (1KC), cue 2 (8KCS), cue 3 (150CPS) are recorded on lower of two tracks on tape. Program is recorded on upper track.

ACCESSORIES:

Remote control unit, cue tone sensing assembly, cue 2 and cue 3 oscillators, empty RCL 1000 and RSC 1000 cartridges, and loaded cartridges of specified running times. (Note: KRS cue tones 150-1,000-8,000 c/s.)

POWER REQUIREMENTS:

90W. at 105 to 125V. AC 60 c/s; 240V. AC 50 c/s models available on special order.

DIMENSIONS AND MOUNTS:

19" rack panel, 14" high, 14" rear clearance. Units are pre-drilled for a chassis-trak slide mounting.

WEIGHT:

55 lbs., including all electronics and 6 cartridges.

DOMESTIC PACKING:

Weight, 70 lbs.; 4.5 cu. ft.



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